

## **LISTING OF THE CLAIMS**

The following is a complete listing of claims with a status identifier in parenthesis.

### **LISTING OF CLAIMS**

1. (Previously Presented) A method for signing access operations to electronic data, comprising:
  - performing a security check upon each access operation in order to ascertain the identity of a user;
  - assigning a user signature, identifying the user, on the basis of the performed security check without being viewable by the user;
  - assigning at least one role signature, each role signature being assignable to a plurality of users, on the basis of the performed security check without being viewable by the user;
  - signing each access operation to electronic data by specifying the user signature and the at least one role signature; and
  - recording each access operation and the user signature and the at least one role signature specified for each access operation, wherein
    - each access operation is recorded in an audit memory,
    - the user signature is recorded in a user signature memory and in the audit memory, and
    - the at least one role signature is recorded in a role signature memory and in the audit memory.
2. (Original) The method as claimed in claim 1, wherein the security

check involves biometric data from the user being ascertained.

3. (Original) The method as claimed in claim 1, wherein the security check involves reading at least one of an electronic and mechanical key.

4. (Previously Presented) The method as claimed in claim 1, wherein the user signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking the user signature memory.

5. (Previously Presented) The method as claimed in claim 1, wherein the at least one role signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking the role signature memory.

6. (Original) The method as claimed in claim 4, wherein the user signature memory is checked using a data telecommunication link.

7. (Original) The method as claimed in claim 1, wherein one user is assignable a plurality of role signatures simultaneously.

8. (Previously Presented) The method as claimed in claim 1, wherein the data are medically relevant, wherein the users are medical specialist personnel, and wherein the at least one role signature is formed in line with the workgroups within the medical specialist personnel.

9. (Previously Presented) A data processing facility, comprising:

security check means for, prior to the data processing facility accessing application data, performing a security check upon each access operation in order to ascertain an identity of a user; and

a signature tool, adapted to assign a user signature, identifying the user, on the basis of an output signal from the security check means without being viewable by the user, wherein the signature tool is further adapted to assign at least one role signature, each role signature being assignable to a plurality of users, on the basis of an output signal from the security check means without being viewable by the user, and wherein the signature tool is further adapted to sign each access operation to electronic data by specifying the user signature and the at least one role signature, and wherein the signature tool is still further adapted to record each access operation in an audit memory, record the user signature in a user signature memory and in the audit memory, and record the at least one role signature in a role signature memory and in the audit memory.

10. (Original) The data processing facility as claimed in claim 9, wherein the security check means is further for ascertaining biometric data from the user.

11. (Original) The data processing facility as claimed in claim 9, wherein

the security check means is adapted to read at least one of electronic and mechanical keys.

12. (Previously Presented) The data processing facility as claimed in claim 9, wherein the signature tool has access to the user signature memory and is adapted to check the user signature memory, on the basis of an output signal from the security check means, for the user signature which is to be assigned.

13. (Previously Presented) The data processing facility as claimed in claim 9, wherein the signature tool has access to the role signature memory and is adapted to check the role signature memory, on the basis of an output signal from the security check means, for the at least one role signature which is to be assigned.

14. (Original) The data processing facility as claimed in claim 12, wherein the user signature memory is arranged remotely from the data processing facility, and wherein the signature tool has access thereto via a data telecommunication link.

15. (Original) The data processing facility as claimed in claim 9, wherein the data processing facility is a medical workstation.

16. (Original) A storage medium, adapted to store information and adapted

to interact with a data processing facility to perform the method as claimed in claim 1.

17. (Original) The method as claimed in claim 2, wherein the security check involves reading at least one of an electronic and mechanical key.

18. (Previously Presented) The method as claimed in claim 2, wherein the user signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking the user signature memory.

19. (Previously Presented) The method as claimed in claim 3, wherein the user signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking the user signature memory.

20. (Previously Presented) The method as claimed in claim 2, wherein the at least one role signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking the role signature memory.

21. (Previously Presented) The method as claimed in claim 3, wherein the at least one role signature to be assigned is ascertainable on the basis of the data ascertained in the security check, by checking a role signature memory.

22. (Original) The method as claimed in claim 5, wherein the role signature

memory is checked using a data telecommunication link.

23-24. (Canceled)

25. (Previously Presented) The data processing facility as claimed in claim 11, wherein the signature tool has access to the user signature memory and is adapted to check the user signature memory, on the basis of an output signal from the security check means, for the user signature which is to be assigned.

26. (Canceled)

27. (Previously Presented) The data processing facility as claimed in claim 11, wherein the signature tool has access to the role signature memory and is adapted to check the role signature memory, on the basis of an output signal from the security check means, for the at least one role signature which is to be assigned.

28. (Original) The data processing facility as claimed in claim 13, wherein the role signature memory is arranged remotely from the data processing facility, and wherein the signature tool has access thereto via a data telecommunication link.

29. (Previously Presented) A data processing facility, comprising:

security check means for, prior to the data processing facility accessing application data, performing a security check upon each access operation in order to ascertain an identity of a user; and

signature tool means for assigning a user signature identifying the user, on the basis of an output signal from the security check means without being viewable by the user, for assigning at least one role signature, each role signature being assignable to a plurality of users, on the basis of an output signal from the security check means without being viewable by the user, for signing access operations to electronic data by specifying the user signature and the at least one role signature, and for recording each access operation in an audit memory, recording the user signature in a user signature memory and in the audit memory, and recording the at least one role signature in a role signature memory and in the audit memory.

30. (Original) The data processing facility as claimed in claim 29, wherein the security check means is further for ascertaining biometric data from the user.

31. (Original) The data processing facility as claimed in claim 29, wherein the security check means is adapted to read at least one of electronic and mechanical keys.

32. (Previously Presented) The data processing facility as claimed in claim

29, wherein the signature tool means includes access to the user signature memory and is for checking the user signature memory, on the basis of an output signal from the security check means, for the user signature which is to be assigned.

33. (Previously Presented) The data processing facility as claimed in claim 29, wherein the signature tool includes access to the role signature memory and is for checking the role signature memory, on the basis of an output signal from the security check means, for the at least one role signature which is to be assigned.

34. (Previously Presented) The data processing facility as claimed in claim 32, wherein at least one of the user signature memory and the role signature memory is arranged remotely from the data processing facility, and wherein the signature tool has access to at least one of the user signature memory and the role signature memory via a data telecommunication link.

35. (Canceled)

36. (Original) The data processing facility as claimed in claim 29, wherein the data processing facility is a medical workstation.

37-39. (Canceled)



40. (Previously Presented) A method for reconstruction of access operations to electronic data, comprising:

signing each access operation, wherein

a security check is performed in order to ascertain the identity of a user,

a user signature is assigned, identifying the user, on the basis of the performed security check, without being viewable by the user,

at least one role signature is assigned, each role signature being assignable to a plurality of users, on the basis of the performed security check, without being viewable by the user,

the access operation is signed by specifying the user signature and the at least one role signature, and

each access operation and the user signature and the at least one role signature specified for each access operation are recorded, wherein

each access operation is recorded in an audit memory,

the user signature is recorded in a user signature memory and in the audit memory, and

the at least one role signature is stored in a role signature memory and in the audit memory; and

reconstructing each access operation by specifying at least one of the user signature and the at least one role signature and accessing the audit memory.

41. (Previously Presented) The method as claimed in claim 40, wherein an access operation can be reconstructed by specifying at least one of the user's former and current role signatures.

42. (Canceled)

43. (Previously Presented) The method as claimed in claim 1, wherein the user signature memory and the role signature memory are maintained independently from the audit memory.

44. (Previously Presented) The data processing facility as claimed in claim 9, wherein the user signature memory and the role signature memory are maintained independently from the audit memory.

45. (Previously Presented) The data processing facility as claimed in claim 29, wherein the user signature memory and the role signature memory are maintained independently from the audit memory.

46. (Previously Presented) The method as claimed in claim 40, wherein the user signature memory and the role signature memory are maintained independently from the audit memory.